

Work Order ID 94471

94471

Page 1

December-19-12 11:17:03 AM

Item ID: 647.9612

Accept

N900040100

Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: RH Fwd Wiper Deflector

Start Date: 1/17/13 Start Qty: 30.00

30

Cust Item ID:

Required Date: 1/17/13 Req'd Qty: 30.00

30

Customer:

Reference:

Approvals: Process Plan: M.L.S

Date: 12-12-12

Tooling:

Date:

QC:

Date:

SPC (Y/N):

Date:

Run Start ***NR1***

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
647.9600									
100		0.00							
100									
Bandsaw	Memo	0.00							
Jeaspa Bandsaw	CUT AT 9.25" LONG								
110		0.00							
110									
Outsource5	Memo	0.00							
Outsource process - Machining	ISSUE P/O: <u>19277</u>								
	POSSIBLE SUPPLIER: ARCHER PRECISION								
	Certificate of conformaty required								
115	Receive & Inspect for Damage & Mat'l Certs	0.00							
115									
Packaging	Memo	0.00							
Packaging									

30

13-01-25

PL 13-03-7

2

4/3/17 (20)

PTU

NCR: Yes ☒ No ☐

see pink NCR 13-3062

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: fat Date: 13/16/13QA Closed: fat Date: 13/19/13

Work Order: <u>94471</u>				DISPOSITION		AGAINST DEPARTMENT/PROCESS							
Part No. <u>647-9612</u>				Rework <input type="checkbox"/>		Skid-tube <input type="checkbox"/>		Crosstube <input type="checkbox"/>		Water Jet <input type="checkbox"/>		Engineering <input type="checkbox"/>	
NCR No. <u>13-3061</u>				Scrap <input checked="" type="checkbox"/>		Machining <input type="checkbox"/>		Small Fab <input type="checkbox"/>		Prod. Eng. Coord. <input type="checkbox"/>		Quality <input type="checkbox"/>	
				Use-as-is <input type="checkbox"/>		Thermoforming <input type="checkbox"/>		Finishing <input type="checkbox"/>		Rec/Store/Packaging <input type="checkbox"/>		Other <input type="checkbox"/>	
				Work Order Update <input type="checkbox"/>		Large Fab <input type="checkbox"/>		Composite <input type="checkbox"/>		Supplier <input checked="" type="checkbox"/>			

Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Doc/Data <input type="checkbox"/>	13/9/13	110	2	Part dimensions out of tolerance undersized upon received during setup QTY (2) X see ATTACH 2 NCR Form supplier	DAS 16 9-89 027042 13/6/12	adjustments made to set up destroyed so replace QTY (2)	DAS 27 9-89 13/9/13	DAS 16 9-89 13/6/12	DAS 16 9-89 027042 13/6/12
Equip/Tooling <input type="checkbox"/>									
Operator <input type="checkbox"/>									
Material <input type="checkbox"/>									
Setup <input type="checkbox"/>									
Other <input type="checkbox"/>									
Process <input type="checkbox"/>									
Supplier <input checked="" type="checkbox"/>									
Training <input type="checkbox"/>									
Unapproved <input type="checkbox"/>									

FAULT CATEGORY									
Landing Gear			General						
<input type="checkbox"/> Bending	<input type="checkbox"/> Bend	<input type="checkbox"/> Grain	<input type="checkbox"/> Ovalized	<input type="checkbox"/> Pressure/Forced		<input type="checkbox"/> Hardware	<input type="checkbox"/> Over/Under tolerance	<input type="checkbox"/> Temperature/Cure	
<input type="checkbox"/> Centre Not Concentric to O/S	<input type="checkbox"/> BOM/Route	<input type="checkbox"/> Inspection Incomplete	<input type="checkbox"/> Part Incorrect	<input type="checkbox"/> Weld		<input type="checkbox"/> Inspection Incomplete/Unclear	<input type="checkbox"/> Part Lost/Missing	<input type="checkbox"/> Wrong Stock Pulled	
<input type="checkbox"/> Cracks	<input type="checkbox"/> Broken/Damaged	<input type="checkbox"/> Maintenance	<input type="checkbox"/> Part Moved		<input type="checkbox"/> Burrs	<input type="checkbox"/> Mislabeled	<input type="checkbox"/> Positioned Wrong	<input type="checkbox"/> Other	
<input type="checkbox"/> Crushed/Crimped	<input type="checkbox"/> Contamination	<input type="checkbox"/> Misread	<input type="checkbox"/> Power Loss/Surge		<input type="checkbox"/> Cuffs	<input type="checkbox"/> Offset			
<input type="checkbox"/> Heat Treat	<input type="checkbox"/> Countersink	<input type="checkbox"/> Out of Calibration			<input type="checkbox"/> Heat Treat	<input type="checkbox"/> Out of Sequence			
<input type="checkbox"/> Inspection Strip in Tube	<input type="checkbox"/> Cut Too Short	<input type="checkbox"/> Outside Dimensions			<input type="checkbox"/> Inspection Strip in Tube				
<input type="checkbox"/> Ripples in Bend	<input type="checkbox"/> Drill Holes				<input type="checkbox"/> Ripples in Bend				
<input type="checkbox"/> Torque Waves in Extrusion	<input type="checkbox"/> Drawing				<input type="checkbox"/> Torque Waves in Extrusion				
<input type="checkbox"/> Turning Sequence	<input type="checkbox"/> Finish				<input type="checkbox"/> Turning Sequence				
<input type="checkbox"/> Wave/Twist in Tube	<input type="checkbox"/> Folio				<input type="checkbox"/> Wave/Twist in Tube				

Work Order ID 94471

94471

Page 2

December-19-12 11:17:03 AM

Item ID: 647.9612

Accept

N900040100

Setup Start

NS1

Revision ID:

Stop

NS2

Item Name: RH Fwd Wiper Deflector

Start Date: 1/17/13

Start Qty: 30.00

30

Cust Item ID:

Required Date: 1/17/13

Req'd Qty: 30.00

30

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

117

QC6- Inspect dimensions to drawing

0.00

117

QC

Memo

0.00

Quality Control

28
23
B93

28
can

118

0.00

118

HandFinish

Memo

0.00

Hand Finishing

REMOVE ALL PART MARKINGS

N/A

120

0.00

120

Outsource4

Memo

0.00

Outsource process - Anodize

HARD ANODIZE IAW MIL-A-8625 TYPE 3
COLOUR BLACK

CZ13/09/06 28

P/O: 21220

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ Date: _____

Work Order: _____ Part No. _____ NCR No. _____				DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>		AGAINST DEPARTMENT/PROCESS <div style="display: flex; justify-content: space-between;"> <div> Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Thermoforming <input type="checkbox"/> Large Fab <input type="checkbox"/> </div> <div> Crosstube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Composite <input type="checkbox"/> </div> <div> Water Jet <input type="checkbox"/> Prod. Eng. Coord. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/> </div> <div> Engineering <input type="checkbox"/> Quality <input type="checkbox"/> Other <input type="checkbox"/> </div> </div>					
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector		
Doc/Data <input type="checkbox"/>											
Equip/Tooling <input type="checkbox"/>											
Operator <input type="checkbox"/>											
Material <input type="checkbox"/>											
Setup <input type="checkbox"/>											
Other <input type="checkbox"/>											
Process <input type="checkbox"/>											
Supplier <input type="checkbox"/>											
Training <input type="checkbox"/>											
Unapproved <input type="checkbox"/>											

FAULT CATEGORY											
Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube			General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio			<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions			<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other		

Work Order ID 94471

94471

Page 3

December-19-12 11:17:03 AM

Item ID: 647.9612

Accept

N900040100

Setup Start

NS1

Revision ID:

Stop

NS2

Item Name: RH Fwd Wiper Deflector

Start Date: 1/17/13

Start Qty: 30.00

30

Cust Item ID:

Required Date: 1/17/13

Req'd Qty: 30.00

30

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

130

Receive & Inspect for Damage & Mat'l Certs

0.00

130

Packaging

Memo

0.00

Packaging

IDENTIFY AS PER APICAL MPP-120 BY STAMPING P# AND REV

93/13 28

140

QC5- Inspect part completeness to step on W/O

0.00

140

QC

Memo

0.00

Quality Control

N/A Smp

150

Spray Painting per QSI005 4.2

0.00

150

SprayPaint

Memo

0.00

Spray Painting

PRIME AS PER DWG NOTE #2

A.T.G

CZ 13/09/06

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ Date: _____

Work Order: _____ Part No. _____ NCR No. _____				DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>		AGAINST DEPARTMENT/PROCESS <div style="display: flex; justify-content: space-between;"> <div> Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Thermoforming <input type="checkbox"/> Large Fab <input type="checkbox"/> </div> <div> Crosstube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Composite <input type="checkbox"/> </div> <div> Water Jet <input type="checkbox"/> Prod. Eng. Coord. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/> </div> <div> Engineering <input type="checkbox"/> Quality <input type="checkbox"/> Other <input type="checkbox"/> </div> </div>					
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector		
Doc/Data <input type="checkbox"/>											
Equip/Tooling <input type="checkbox"/>											
Operator <input type="checkbox"/>											
Material <input type="checkbox"/>											
Setup <input type="checkbox"/>											
Other <input type="checkbox"/>											
Process <input type="checkbox"/>											
Supplier <input type="checkbox"/>											
Training <input type="checkbox"/>											
Unapproved <input type="checkbox"/>											

FAULT CATEGORY										
Landing Gear			General							
<input type="checkbox"/> Bending	<input type="checkbox"/> Centre Not Concentric to O/S	<input type="checkbox"/> Cracks	<input type="checkbox"/> Crushed/Crimped	<input type="checkbox"/> Cuffs	<input type="checkbox"/> Heat Treat	<input type="checkbox"/> Inspection Strip in Tube	<input type="checkbox"/> Ripples in Bend	<input type="checkbox"/> Torque Waves in Extrusion	<input type="checkbox"/> Turning Sequence	<input type="checkbox"/> Wave/Twist in Tube
<input type="checkbox"/> Bend	<input type="checkbox"/> BOM/Route	<input type="checkbox"/> Broken/Damaged	<input type="checkbox"/> Burrs	<input type="checkbox"/> Contamination	<input type="checkbox"/> Countersink	<input type="checkbox"/> Cut Too Short	<input type="checkbox"/> Drill Holes	<input type="checkbox"/> Drawing	<input type="checkbox"/> Finish	<input type="checkbox"/> Folio
<input type="checkbox"/> Grain	<input type="checkbox"/> Hardware	<input type="checkbox"/> Inspection Incomplete	<input type="checkbox"/> Instructions Incomplete/Unclear	<input type="checkbox"/> Maintenance	<input type="checkbox"/> Mislabeled	<input type="checkbox"/> Misread	<input type="checkbox"/> Offset	<input type="checkbox"/> Out of Calibration	<input type="checkbox"/> Out of Sequence	<input type="checkbox"/> Outside Dimensions
<input type="checkbox"/> Ovalized	<input type="checkbox"/> Over/Under tolerance	<input type="checkbox"/> Part Incorrect	<input type="checkbox"/> Part Lost/Missing	<input type="checkbox"/> Part Moved	<input type="checkbox"/> Positioned Wrong	<input type="checkbox"/> Power Loss/Surge	<input type="checkbox"/> Pressure/Forced	<input type="checkbox"/> Temperature/Cure	<input type="checkbox"/> Weld	<input type="checkbox"/> Wrong Stock Pulled
						<input type="checkbox"/> Other				
<div style="border-bottom: 1px solid black; height: 15px; width: 100%;"></div> <div style="border-bottom: 1px solid black; height: 15px; width: 100%;"></div> <div style="border-bottom: 1px solid black; height: 15px; width: 100%;"></div>										

Work Order ID 94471

December-19-12 11:17:03 AM

94471

Page 4

Item ID: 647.9612 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: RH Fwd Wiper Deflector
 Start Date: 1/17/13 Start Qty: 30.00 ***30*** Cust Item ID:
 Required Date: 1/17/13 Req'd Qty: 30.00 ***30*** Customer:
 Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
160 *160* QC Quality Control	QC14 Inspect Spray Paint 6 Memo	0.00 DAS 27 9-89 0.00 13 9 16				28			
170 *170* Packaging Packaging	Identify as per dwg & Stock Location: ST417 Memo	0.00 0.00				28x			DAS 26 9-89 13-9-16
190 *190* QC Quality Control	QC21- Final Inspection - Work Order Release Memo	0.00 0.00				MCS			13-09-20

13-09-16

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ Date: _____

Work Order: _____ Part No. _____ NCR No. _____				DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>		AGAINST DEPARTMENT/PROCESS <div style="display: flex; justify-content: space-between;"> <div> Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Thermoforming <input type="checkbox"/> Large Fab <input type="checkbox"/> </div> <div> Crosstube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Composite <input type="checkbox"/> </div> <div> Water Jet <input type="checkbox"/> Prod. Eng. Coord. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/> </div> <div> Engineering <input type="checkbox"/> Quality <input type="checkbox"/> Other <input type="checkbox"/> </div> </div>					
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector		
Doc/Data <input type="checkbox"/>											
Equip/Tooling <input type="checkbox"/>											
Operator <input type="checkbox"/>											
Material <input type="checkbox"/>											
Setup <input type="checkbox"/>											
Other <input type="checkbox"/>											
Process <input type="checkbox"/>											
Supplier <input type="checkbox"/>											
Training <input type="checkbox"/>											
Unapproved <input type="checkbox"/>											
FAULT CATEGORY											
Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube			General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio			<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions			<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other		

Picklist Print

Page 1

December-19-12 11:17:03 AM

Work Order ID: 94471

Parent Item: 647.9612

Parent Item Name: RH Fwd Wiper Deflector

Start Date: 1/17/13

Start Qty: 30.00

Required Date: 1/17/13

Required Qty: 30.00

Comments: IPP REV:A NEW ISSUE 12-11-19 JLM VERIFIED BY:DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
647.9612P		Purchased	No				Each	0.0000		30			
RH Fwd Wiper Deflector													
M7075T6B4.000X4.500		Purchased	No				f	8.0000		24.631579			
7075-T6 BAR 4.000' X 4.500"													

Location

Loc Qty

Loc Code

MAT049

8

124030

8

124383

~~25~~ 13-01-28
24.7

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ Date: _____

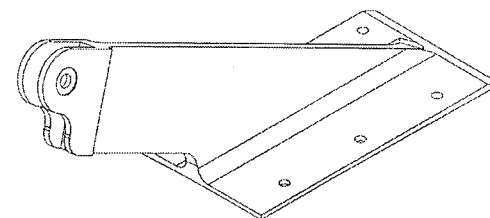
Work Order: _____ Part No. _____ NCR No. _____				DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>		AGAINST DEPARTMENT/PROCESS <div style="display: flex; justify-content: space-between;"> <div> Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Thermoforming <input type="checkbox"/> Large Fab <input type="checkbox"/> </div> <div> Crosstube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Composite <input type="checkbox"/> </div> <div> Water Jet <input type="checkbox"/> Prod. Eng. Coord. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/> </div> <div> Engineering <input type="checkbox"/> Quality <input type="checkbox"/> Other <input type="checkbox"/> </div> </div>					
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Doc/Data <input type="checkbox"/>											
Equip/Tooling <input type="checkbox"/>											
Operator <input type="checkbox"/>											
Material <input type="checkbox"/>											
Setup <input type="checkbox"/>											
Other <input type="checkbox"/>											
Process <input type="checkbox"/>											
Supplier <input type="checkbox"/>											
Training <input type="checkbox"/>											
Unapproved <input type="checkbox"/>											

FAULT CATEGORY				
Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio	<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions	<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge	<input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other

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NOTES:

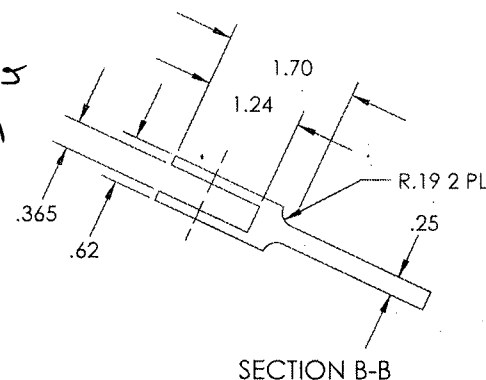
- 1 MATERIAL: ALUMINUM 7075-T651 PER AMS-QQ-A-250/12.
- 2 FINISH: ANODIZE PER MIL STD-A-8625, TYPE III, CLASS 2, COLOR BLACK;
PRETREAT PRC-DESOTO PR-148 ADHESION PROMOTER;
PRIME IAW MIL-P-23377J TYPE I CLASS N.
- 3 PART DIMENSIONS CONTROLLED BY CAD MODEL
FILE NAME: 647.9610 NC LH FWD WIPER DEFLECTOR.SLDPRT, LAST MODIFIED 06/30/10.
- 4 PART DIMENSIONS CONTROLLED BY CAD MODEL
FILE NAME: 647.9611 NC LH AFT WIPER DEFLECTOR.SLDPRT, LAST MODIFIED 06/30/10.
- 5 PART DIMENSIONS CONTROLLED BY CAD MODEL
FILE NAME: 647.9612 NC RH FWD WIPER DEFLECTOR.SLDPRT, LAST MODIFIED 06/30/10.
- 6 PART DIMENSIONS CONTROLLED BY CAD MODEL
FILE NAME: 647.9613 NC RH AFT WIPER DEFLECTOR.SLDPRT, LAST MODIFIED 06/30/10.
7. DEBURR AND BREAK ALL SHARP EDGES.
8. IDENTIFY IAW MPP-120. LASER ETCH P/N REVISION, 12 PT. CENTURY GOTHIC.



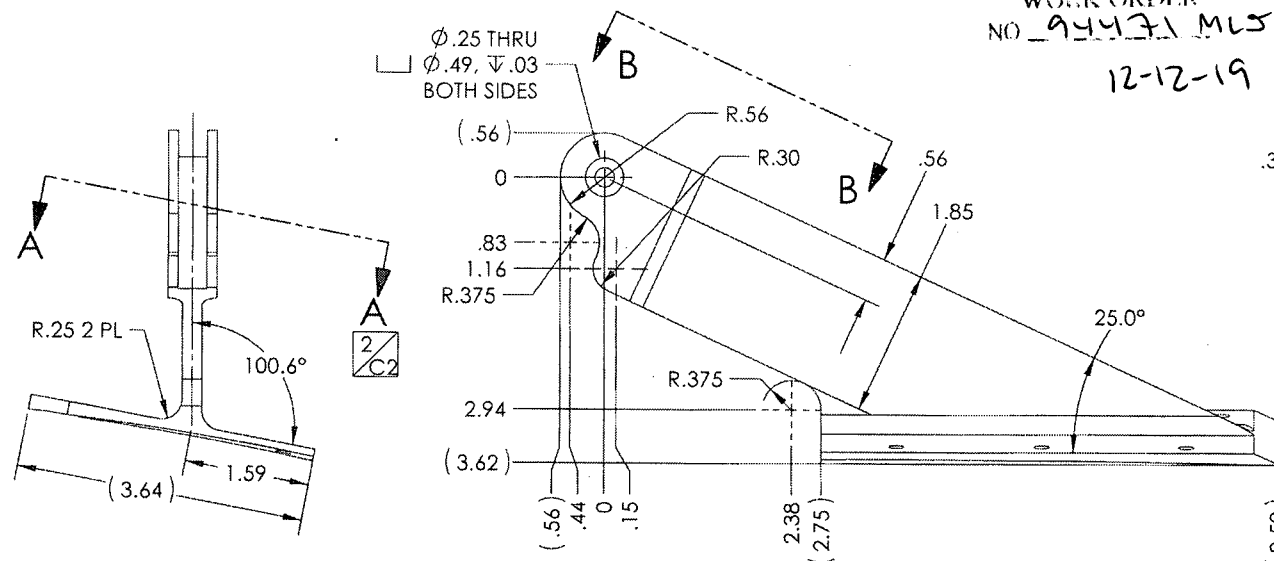
647.9610 SHOWN
647.9612 OPPOSITE

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO 94471 MLS

12-12-19



SECTION B-B

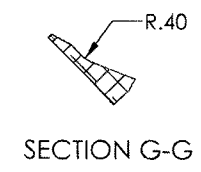
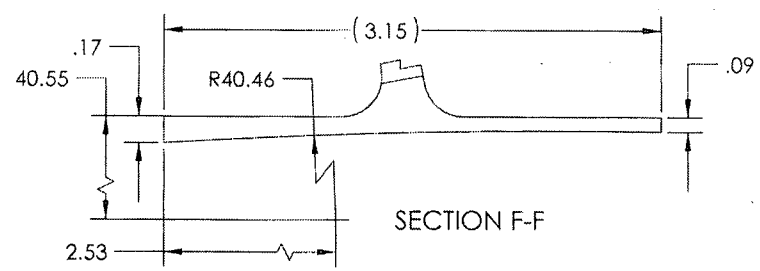
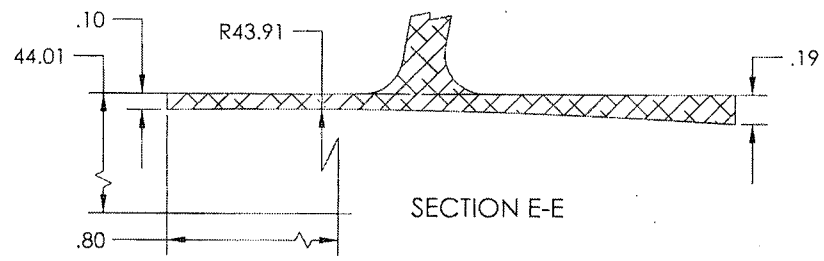
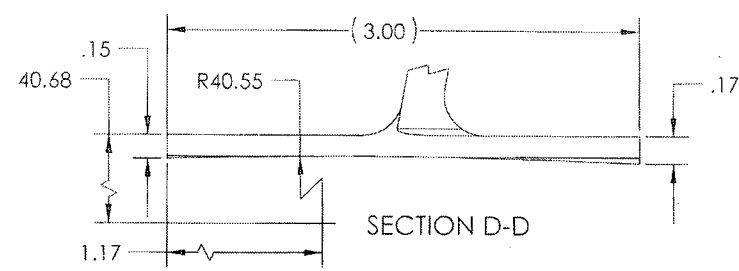
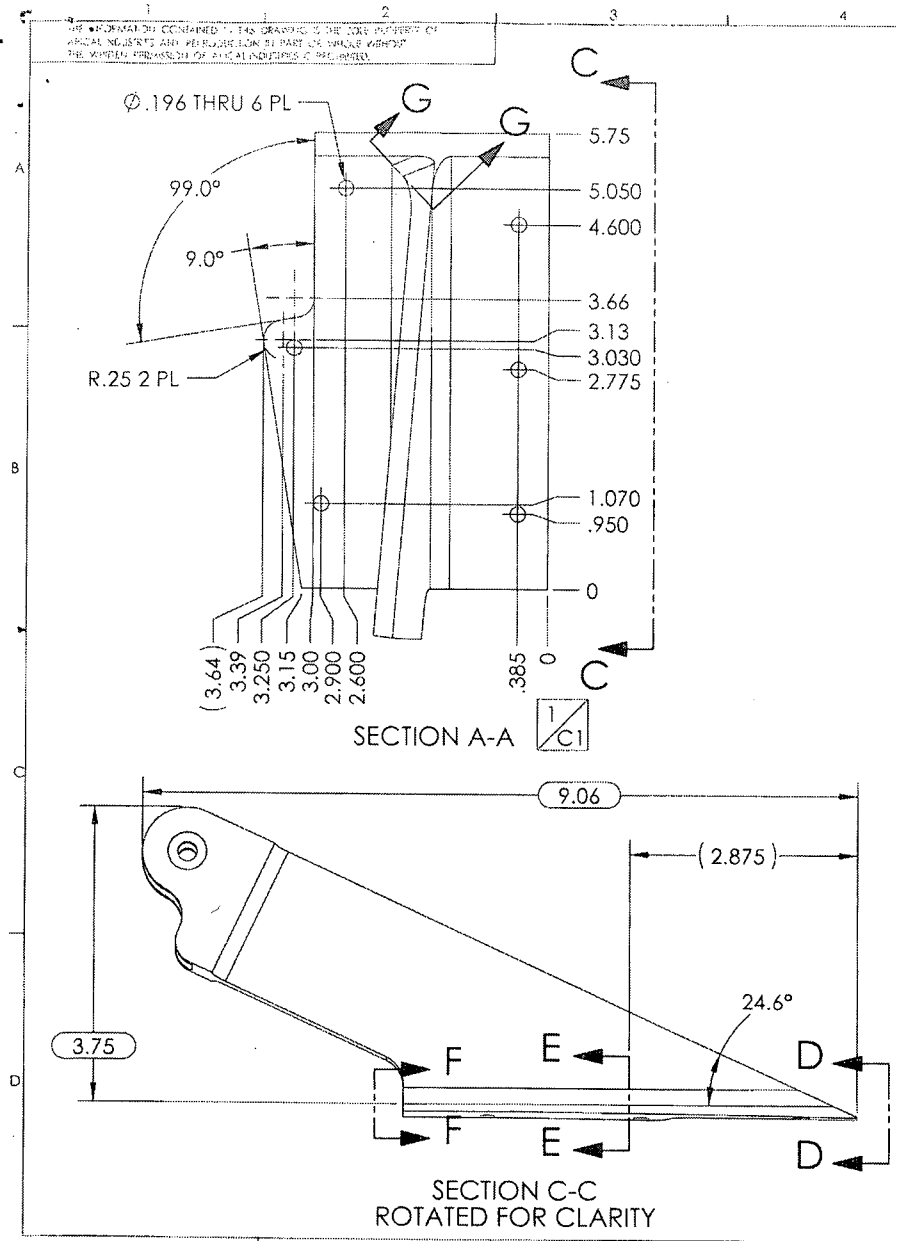


		647.9613	RH AFT WIPER DEFLECTOR	△	△	△
		647.9612	RH FWD WIPER DEFLECTOR	△	△	△
		647.9611	LH AFT WIPER DEFLECTOR	△	△	△
1	1	647.9610	LH FWD WIPER DEFLECTOR	△	△	△
	FIN #	PART #	DESCRIPTION	MAT'L	SPEC.	
QTY			PARTS LIST			
NEXT ASSY (S)			APICAL INDUSTRIES			
647.8900			2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300			
ORIGINAL DATE: 06-22-10 DRAWN BY: E. JACOBSEN CHECKED BY: P. BRADY DESIGNED BY: P. BRADY CONTRACT NO. 03			M			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ±.01 2 PLACE DECIMALS ±.01 ANGLES ±.5°						
SHEET	B	CAGE CODE	07M46	DATE	647.9600	REV
SCALE		NONE		SHEET		1 OF 5
						N/C

APICAL INDUSTRIES
2608 TEMPLE HEIGHTS DR.
OCEANSIDE, CA. 92056-3512 (760) 724-5300
WIPER DEFLECTOR

94471

REV	DESCRIPTION	DATE	BY



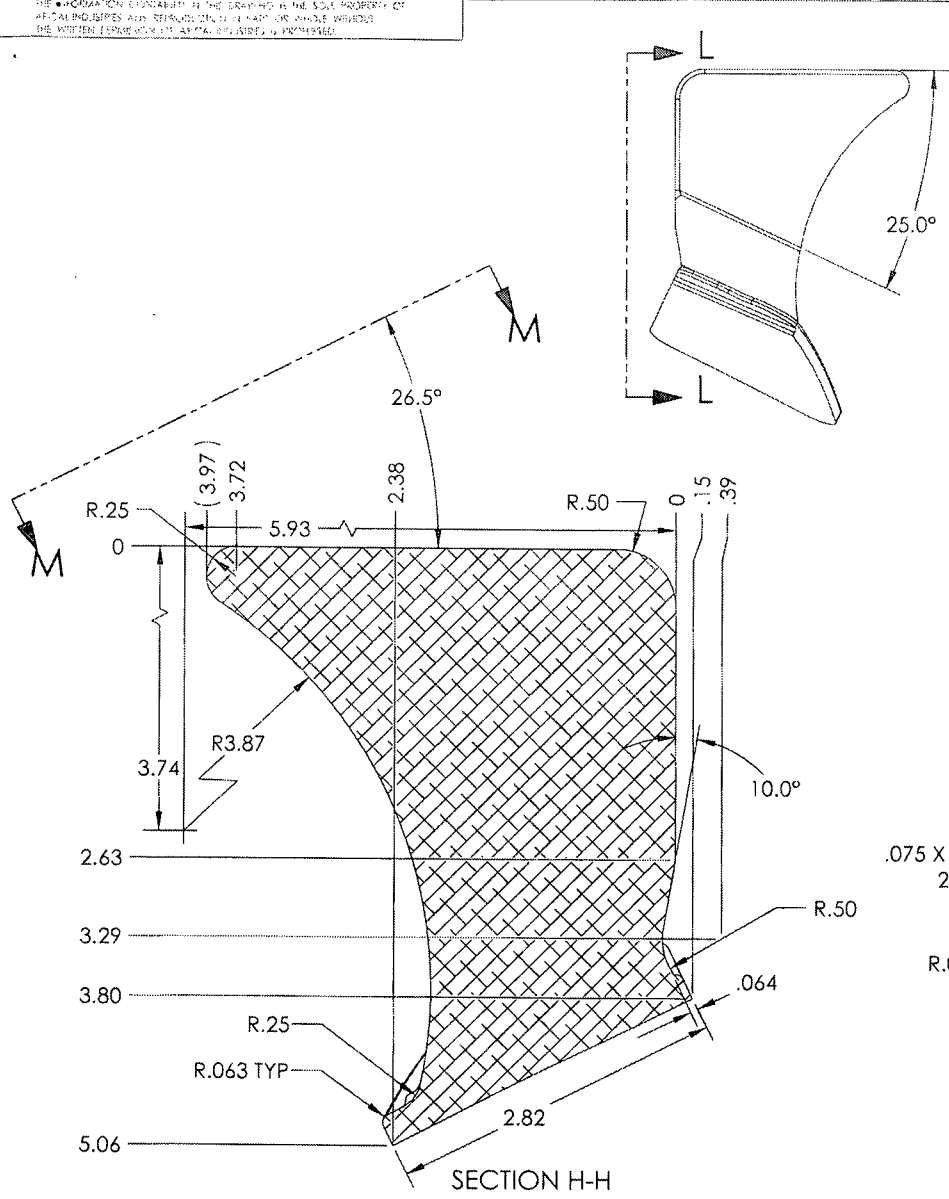
ORIGINAL DATE 10/20/04	DESIGNED BY CROCKER	APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA 92056-3512 (760)724-5300	
DRAWING APPROVAL		WIPER DEFLECTOR	
CONTRACT NO.		SHEET 2 OF 5	REV. N/C
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS .01 3 PLACE DECIMALS .005 ANGLES .5°		SIZE 6	DWG. NO. 647.9600
SCALE: NONE			

94471

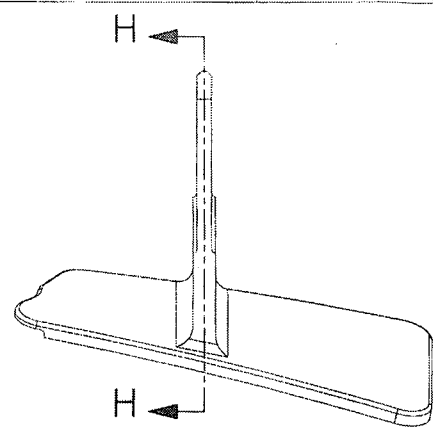
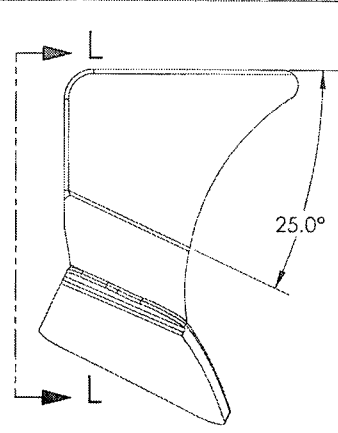
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES AND SHALL BE KEPT IN CONFIDENCE AND NOT REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES, INC.

REV.	DESCRIPTION	DATE	APPROVED

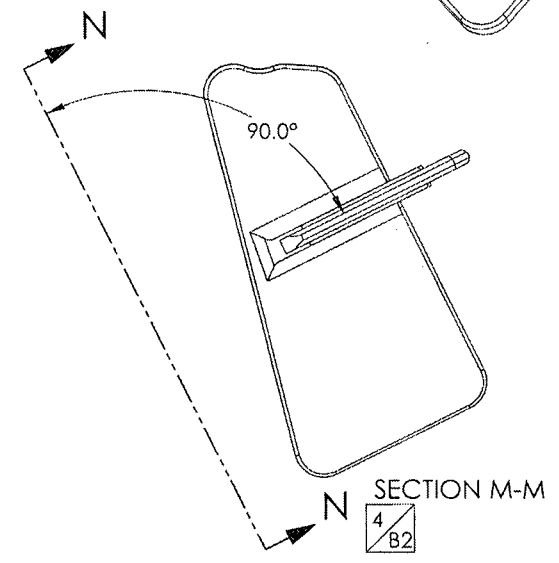
A
B
C
D



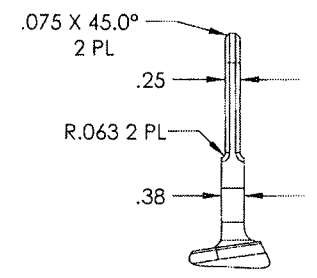
SECTION H-H



647.9611 SHOWN
647.9613 OPPOSITE

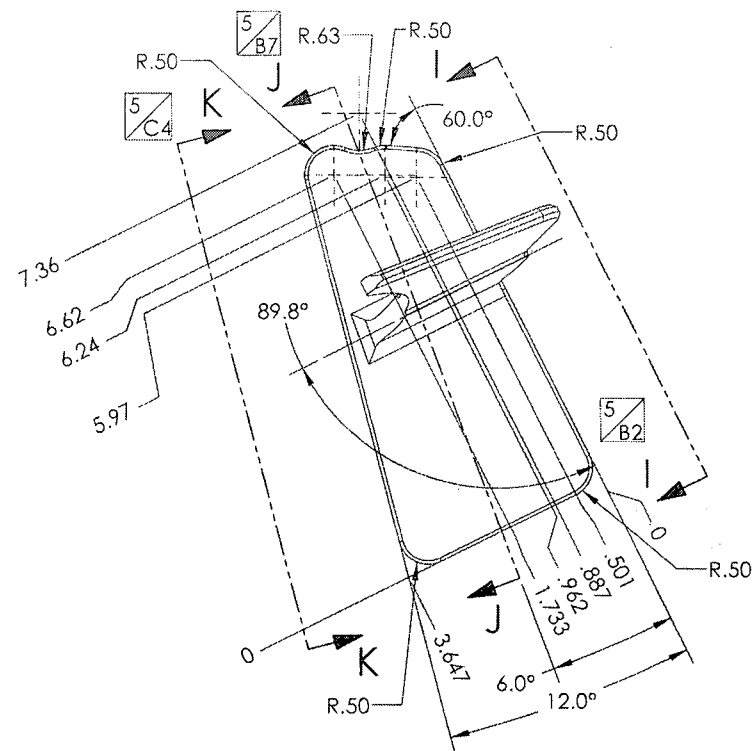


SECTION M-M
4/B2

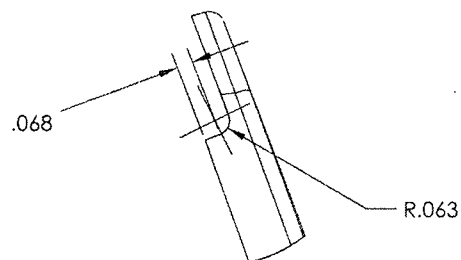


SECTION L-L

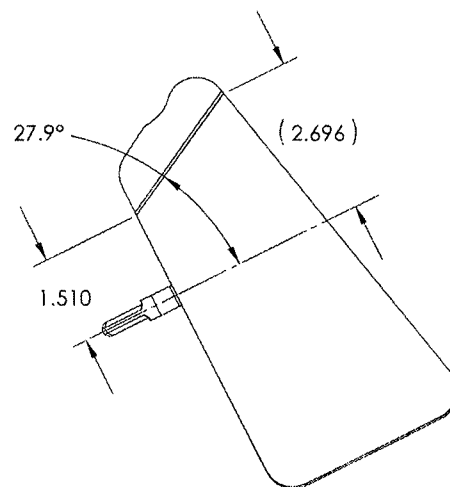
ORIGINAL DATE UNLESS SHOWN	APICAL INDUSTRIES
DRAWN BY CINCEYER	2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300
DRAWING APPROVAL	WIPER DEFLECTOR
CONTRACT NO.	SCALE: NONE
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°	SHEET 3 OF 5



SECTION N-N



DETAIL P



SECTION Q-Q

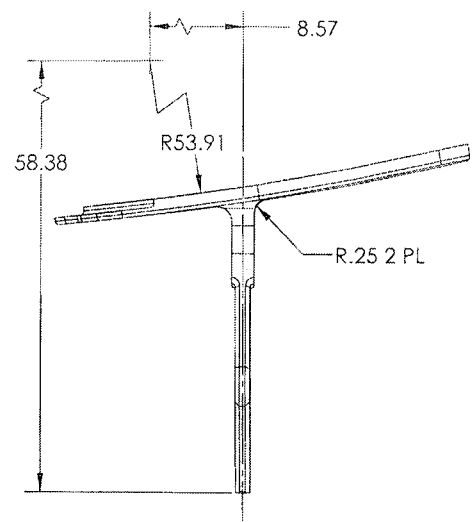
SECTION O-O

ORIGINAL DATE (MCH-DM-YR)	APICAL INDUSTRIES		
DRAWN BY	ENGINEER	2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760) 724-5300	
DRAWING APPROVAL			
CONTRACT NO.		WIPER DEFLECTOR	
INFO IS CONTAINED SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 1. FRACTION DECIMALS & .001 2. FRACTION DECIMALS & .001 3. FRACTION DECIMALS & .001 4. FRACTION DECIMALS & .001		SIZE CASE CODED 0 07A MNE	DWG NO. 647.9600
		SHEET	SHEET 4 OF 5

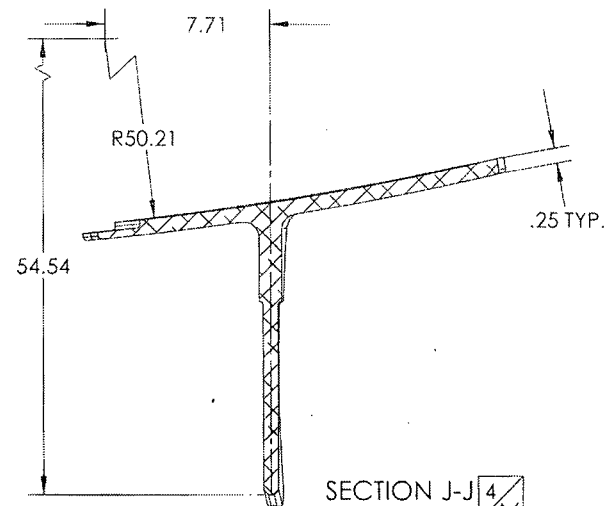
94471

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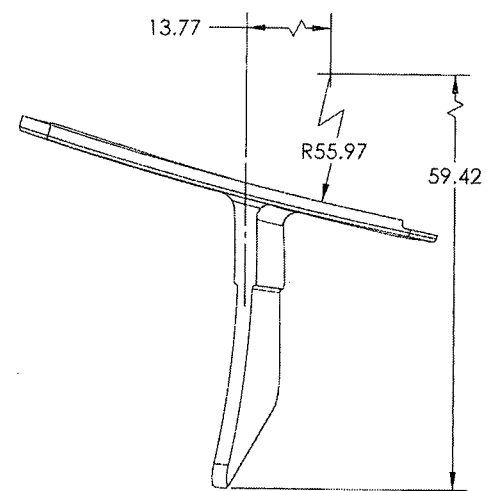
REV.	DESCRIPTION	DATE	BY



SECTION I-I 4
B7



SECTION J-J 4
A6



SECTION K-K 4
B5

ORIGINAL DATE: 06-22-10		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWN BY: J. JACKSON	CHECKED BY: P. BRAVO		
DESIGNED BY: P. BRAVO	APPROVED BY: P. BRAVO		
DATE: 06-22-10	CONTRACT NO.:		
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.		SCALE: NONE	
TOLERANCES ARE:		SHEET 5 OF 5	
2 PLACE DECIMALS ±.01		647.9600	
2 PLACE DECIMALS ±.005		N/C	
ANGLE: ±.5°		07M26	



2228 Gladwin Cres.
Ottawa, Ont.
K1B 4S6

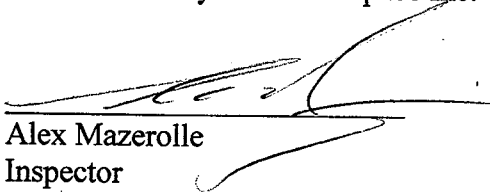
Telephone (613) 899-2405
Fax (613) 226-1719

Certificate of Compliance

To:
Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury Ont.
K6A 1K7

Po Number	Part Number	Quantities
19277	647.9612P	28

It is hereby certified that all articles mentioned above are in conformance with the requirements, specification and drawings as listed on customer purchase order number, 19277 issued by Dart Aerospace Inc.



Alex Mazerolle
Inspector
Archer Precision Inc.
2228 Gladwin Cress.
Ottawa, Ontario
K1B 4S6



Inspection Report

Customer Name Dart Aerospace				QTY	DWG # 647.9600		REV. N/C	Part Name WIPER DEFLECTOR				Date	Lot#	Job #		
Page 1 of		Inspection Interval		Special Notes												
Item #	DWG. Dim	Tolerance	Operator	QA First		QA Final		2	3	4	5	6	7	8	9	10
			First Off	A	R	A	R									
	Rev	N/C	N/C													
	MAT	6061	6061													
	SUB	BLK ANO	NONE													
	Deburr	YES	YES													
1	R.25	±.03	PP					PP	PP	PP	PP	PP	PP	PP	PP	PP
2	3.64	REF	3.635					3.635	3.639	3.637	3.639	3.635	3.640	3.639	3.641	
3	1.59	±.03	PP					PP	PP	PP	PP	PP	PP	PP	PP	
4	100.6°	±.5°	PP					PP	PP	PP	PP	PP	PP	PP	PP	
5	Ø.25	THRU	0.250					0.250	0.250	0.250	0.250	0.250	0.250	0.250	0.250	
6	Ø.49	±.03	0.492					0.491	0.491	0.491	0.491	0.491	0.491	0.491	0.491	
7	↓.03	±.03	0.027					0.027	0.027	0.027	0.030	0.030	0.033	0.023	0.023	
8	2X	-	2X					2X	2X	2X	2X	2X	2X	2X	2X	
9	.56	REF	PP					PP	PP	PP	PP	PP	PP	PP	PP	
10	.83	±.03	PP					PP	PP	PP	PP	PP	PP	PP	PP	
11	1.16	±.03	PP					PP	PP	PP	PP	PP	PP	PP	PP	
12	R.375	±.01	PP					PP	PP	PP	PP	PP	PP	PP	PP	
13	2.94	±.03	PP					PP	PP	PP	PP	PP	PP	PP	PP	
14	3.62	REF	PP					PP	PP	PP	PP	PP	PP	PP	PP	
15	.56	REF	PP					PP	PP	PP	PP	PP	PP	PP	PP	
16	.44	±.03	PP					PP	PP	PP	PP	PP	PP	PP	PP	
17	.15	±.03	PP					PP	PP	PP	PP	PP	PP	PP	PP	
18	R.375	±.01	PP					PP	PP	PP	PP	PP	PP	PP	PP	
19	2.83	±.03	PP					PP	PP	PP	PP	PP	PP	PP	PP	
20	2.75	REF	PP					PP	PP	PP	PP	PP	PP	PP	PP	
21	8.50	REF	PP					PP	PP	PP	PP	PP	PP	PP	PP	
22	25.°	±.5°	PP					PP	PP	PP	PP	PP	PP	PP	PP	

23	1.85	±.03	1.847				1.848	1.849	1.850	1.851	1.852	1.853	1.854	1.855
24	.56	±.03	PP				PP	PP	PP	PP	PP	PP	PP	PP
25	R.30	±.03	PP				PP	PP	PP	PP	PP	PP	PP	PP
26	R.56	±.03	PP				PP	PP	PP	PP	PP	PP	PP	PP
27	.365	±.01	0.368				0.365	0.366	0.367	0.368	0.369	0.370	0.371	0.372
28	.62	±.03	6/4				0.615	0.616	0.617	0.618	0.619	0.620	0.621	0.622
29	1.24	±.03	1.236				1.236	1.237	1.238	1.239	1.240	1.241	1.242	1.243
30	1.70	±.03	PP				PP	PP	PP	PP	PP	PP	PP	PP
31	R.19	±.03	PP				PP	PP	PP	PP	PP	PP	PP	PP
32	.25	±.03	0.248				0.248	0.249	0.250	0.251	0.252	0.253	0.254	0.255
33	Ø.196	±.01	0.196				0.196	0.197	0.198	0.199	0.200	0.201	0.202	0.203
34	99.°	±.5°	PP				PP	PP	PP	PP	PP	PP	PP	PP
35	9.°	±.5°	PP				PP	PP	PP	PP	PP	PP	PP	PP
36	R.25	±.01	PP				PP	PP	PP	PP	PP	PP	PP	PP
37	3.64	REF	PP				PP	PP	PP	PP	PP	PP	PP	PP
38	3.39	±.01	PP				PP	PP	PP	PP	PP	PP	PP	PP
39	3.250	±.005	PP				PP	PP	PP	PP	PP	PP	PP	PP
40	3.15	±.01	PP				PP	PP	PP	PP	PP	PP	PP	PP
41	3.00	±.01	PP				PP	PP	PP	PP	PP	PP	PP	PP
42	2.900	±.005	PP				PP	PP	PP	PP	PP	PP	PP	PP
43	2.600	±.005	PP				PP	PP	PP	PP	PP	PP	PP	PP
44	.385	±.005	0.385				0.385	0.386	0.387	0.388	0.389	0.390	0.391	0.392
45	.950	±.005	0.9515				0.952	0.953	0.954	0.955	0.956	0.957	0.958	0.959
46	1.070	±.005	PP				PP	PP	PP	PP	PP	PP	PP	PP
47	2.775	±.005	PP				PP	PP	PP	PP	PP	PP	PP	PP
48	3.030	±.005	PP				PP	PP	PP	PP	PP	PP	PP	PP
49	3.13	±.01	PP				PP	PP	PP	PP	PP	PP	PP	PP
50	3.66	±.01	PP				PP	PP	PP	PP	PP	PP	PP	PP
51	4.600	±.005	PP				PP	PP	PP	PP	PP	PP	PP	PP
52	5.050	±.005	PP				PP	PP	PP	PP	PP	PP	PP	PP
53	5.75	±.01	5.750				5.750	5.751	5.752	5.753	5.754	5.755	5.756	5.757
54	.15	±.01	.150				0.150	0.151	0.152	0.153	0.154	0.155	0.156	0.157
55	40.68	±.01	PP				PP	PP	PP	PP	PP	PP	PP	PP
56	1.17	±.01	PP				PP	PP	PP	PP	PP	PP	PP	PP
57	R40.55	±.01	PP				PP	PP	PP	PP	PP	PP	PP	PP



Inspection Report

Customer Name			QTY	DWG #	REV.	Part Name		Date	Lot#	Job #							
Dart Aerospace				647.9600	N/C	WIPER DEFLECTOR											
Page 1 of		Inspection Interval		Special Notes													
Item #	DWG. Dim	Tolerance	Operator	QA First		QA Final		11 12		13 14		15 16		17 18		19 20	
	Rev	N/C	First Off	A	R	A	R										
	MAT	6061															
	SUB	BLK ANO															
	Deburr	YES															
1	R.25	±.03						PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
2	3.64	REF						3.636	3.639	3.638	3.640	3.640	3.639	3.638	3.640	3.639	3.640
3	1.59	±.03						PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
4	100.6°	±.5°						PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
5	Ø.25	THRU						0.250	0.249	0.250	0.250	0.250	0.250	0.250	0.250	0.249	0.250
6	Ø.49	±.03						0.490	0.490	0.490	0.490	0.490	0.490	0.490	0.490	0.490	0.490
7	↓.03	±.03						0.028	0.030	0.029	0.029	0.031	0.025	0.027	0.027	0.027	0.027
8	2X	-						2x1	2x1	2x1	2x1	2x1	2x1	2x1	2x1	2x1	2x1
9	.56	REF						PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
10	.83	±.03						PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
11	1.16	±.03						PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
12	R.375	±.01						PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
13	2.94	±.03						PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
14	3.62	REF						PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
15	.56	REF						PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
16	.44	±.03						PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
17	.15	±.03						PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
18	R.375	±.01						PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
19	2.83	±.03						PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
20	2.75	REF						PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
21	8.50	REF						PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
22	25.°	±.5°						PP	PP	PP	PP	PP	PP	PP	PP	PP	PP

23	1.00	±.03						1.850	1.849	1.849	1.849	1.849	1.850	1.851	1.849	1.849	1.851
24	.56	±.03						PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
25	R.30	±.03						PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
26	R.56	±.03						PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
27	.365	±.01						0.365	0.365	0.365	0.366	0.365	0.365	0.365	0.365	0.365	0.365
28	.62	±.03						0.615	0.615	0.617	0.615	0.615	0.615	0.615	0.615	0.615	0.615
29	1.24	±.03						1.235	1.235	1.238	1.235	1.235	1.236	1.234	1.235	1.236	1.235
30	1.70	±.03						PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
31	R.19	±.03						PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
32	.25	±.03						0.250	0.249	0.249	0.249	0.249	0.249	0.249	0.250	0.249	0.250
33	Ø.196	±.01						0.196	0.196	0.196	0.196	0.196	0.195	0.195	0.196	0.196	0.196
34	99.°	±.5°						PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
35	9.°	±.5°						PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
36	R.25	±.01						PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
37	3.64	REF						PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
38	3.39	±.01						PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
39	3.250	±.005						PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
40	3.15	±.01						PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
41	3.00	±.01						PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
42	2.900	±.005						PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
43	2.600	±.005						PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
44	.385	±.005						0.385	0.385	0.385	0.385	0.385	0.385	0.385	0.385	0.385	0.385
45	.950	±.005						0.951	0.952	0.953	0.952	0.952	0.953	0.952	0.953	0.953	0.952
46	1.070	±.005						PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
47	2.775	±.005						PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
48	3.030	±.005						PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
49	3.13	±.01						PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
50	3.66	±.01						PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
51	4.600	±.005						PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
52	5.050	±.005						PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
53	5.75	±.01						S.750	S.750	S.749	S.751	S.752	S.750	S.740	S.752	S.753	S.753
54	.15	±.01						0.149	0.150	0.151	0.148	0.147	0.146	0.153	0.152	0.153	0.147
55	40.68	±.01						PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
56	1.17	±.01						PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
57	R40.55	±.01						PP	PP	PP	PP	PP	PP	PP	PP	PP	PP

58	3.00	REF							PP	PP	PP		PP	PP		PP	PP		PP	PP		PP
59	.17	±.01							0.159	0.160	0.157		0.155	0.162		0.163	0.177		0.157	0.159		0.158
60	.19	±.01							PP	PP	PP		PP	PP		PP	PP		PP	PP		PP
61	R43.91	±.01							PP	PP	PP		PP	PP		PP	PP		PP	PP		PP
62	.10	±.01							0.165	0.169	0.164		0.167	0.166		0.166	0.160		0.169	0.169		0.160
63	44.01	±.01							PP	PP	PP		PP	PP		PP	PP		PP	PP		PP
64	.80	±.01							PP	PP	PP		PP	PP		PP	PP		PP	PP		PP
65	.17	±.01							0.154	0.158	0.156		0.152	0.149		0.162	0.177		0.156	0.157		0.150
66	40.55	±.01							PP	PP	PP		PP	PP		PP	PP		PP	PP		PP
67	R40.46	±.01							PP	PP	PP		PP	PP		PP	PP		PP	PP		PP
68	3.15	REF							PP	PP	PP		PP	PP		PP	PP		PP	PP		PP
69	.09	±.01							PP	PP	PP		PP	PP		PP	PP		PP	PP		PP
70	2.53	±.01							PP	PP	PP		PP	PP		PP	PP		PP	PP		PP
71	R.40	±.01							PP	PP	PP		PP	PP		PP	PP		PP	PP		PP
72	24.6°	±.5°							PP	PP	PP		PP	PP		PP	PP		PP	PP		PP
73	2.875	REF							PP	PP	PP		PP	PP		PP	PP		PP	PP		PP
74	9.06	±.01							PP	PP	PP		PP	PP		PP	PP		PP	PP		PP
75	3.75	±.01							PP	PP	PP		PP	PP		PP	PP		PP	PP		PP



Inspection Report

Customer Name Dart Aerospace			QTY	DWG # 647.9600		REV. N/C	Part Name WIPER DEFLECTOR			Date	Lot#	Job #					
Page 1 of		Inspection Interval		Special Notes													
Item #	DWG. Dim	Tolerance	Operator First Off	QA First A R		QA Final A R		21 22		23 24		25 26		27 28		29 30	
	Rev	N/C															
	MAT	6061															
	SUB	BLK ANO															
	Deburr	YES															
1	R.25	±.03						PP	PP	PP	PP	PP	PP	PP			
2	3.64	REF						3.635	3.637	3.637	3.640	3.637	3.640	3.640	3.637		
3	1.59	±.03						PP	PP	PP	PP	PP	PP	PP			
4	100.6°	±.5°						PP	PP	PP	PP	PP	PP	PP			
5	Ø.25	THRU						0.249	0.250	0.250	0.250	0.249	0.250	0.249	0.250		
6	Ø.49	±.03						0.491	0.490	0.490	0.490	0.490	0.490	0.490	0.490		
7	1.03	±.03						0.029	0.027	0.029	0.027	0.027	0.027	0.027	0.027		
8	2X	-						2P1	2P1	2P1	2P1	2P1	2P1	2P1	2P1		
9	.56	REF						PP	PP	PP	PP	PP	PP	PP	PP		
10	.83	±.03						PP	PP	PP	PP	PP	PP	PP	PP		
11	1.16	±.03						PP	PP	PP	PP	PP	PP	PP	PP		
12	R.375	±.01						PP	PP	PP	PP	PP	PP	PP	PP		
13	2.94	±.03						PP	PP	PP	PP	PP	PP	PP	PP		
14	3.62	REF						PP	PP	PP	PP	PP	PP	PP	PP		
15	.56	REF						PP	PP	PP	PP	PP	PP	PP	PP		
16	.44	±.03						PP	PP	PP	PP	PP	PP	PP	PP		
17	.15	±.03						PP	PP	PP	PP	PP	PP	PP	PP		
18	R.375	±.01						PP	PP	PP	PP	PP	PP	PP	PP		
19	2.83	±.03						PP	PP	PP	PP	PP	PP	PP	PP		
20	2.75	REF						PP	PP	PP	PP	PP	PP	PP	PP		
21	8.50	REF						PP	PP	PP	PP	PP	PP	PP	PP		
22	25.°	±.5°						PP	PP	PP	PP	PP	PP	PP	PP		

23	1.00	±.03						1.850	1.850	1.850	1.850	1.851	1.850	1.851	1.850
24	.56	±.03						PP	PP	PP	PP	PP	PP	PP	PP
25	R.30	±.03						PP	PP	PP	PP	PP	PP	PP	PP
26	R.56	±.03						PP	PP	PP	PP	PP	PP	PP	PP
27	.365	±.01						0.365	0.365	0.365	0.366	0.365	0.365	0.365	0.365
28	.62	±.03						0.617	0.615	0.615	0.615	0.616	0.616	0.616	0.615
29	1.24	±.03						1.234	1.235	1.234	1.236	1.235	1.235	1.235	1.235
30	1.70	±.03						PP	PP	PP	PP	PP	PP	PP	PP
31	R.19	±.03						PP	PP	PP	PP	PP	PP	PP	PP
32	.25	±.03						PP	PP	PP	0.250	0.250	0.250	0.250	0.250
33	Ø.196	±.01						0.196	0.196	0.196	0.196	0.196	0.196	0.196	0.196
34	99.°	±.5°						PP	PP	PP	PP	PP	PP	PP	PP
35	9.°	±.5°						PP	PP	PP	PP	PP	PP	PP	PP
36	R.25	±.01						PP	PP	PP	PP	PP	PP	PP	PP
37	3.64	REF						PP	PP	PP	PP	PP	PP	PP	PP
38	3.39	±.01						PP	PP	PP	PP	PP	PP	PP	PP
39	3.250	±.005						PP	PP	PP	PP	PP	PP	PP	PP
40	3.15	±.01						PP	PP	PP	PP	PP	PP	PP	PP
41	3.00	±.01						PP	PP	PP	PP	PP	PP	PP	PP
42	2.900	±.005						PP	PP	PP	PP	PP	PP	PP	PP
43	2.600	±.005						PP	PP	PP	PP	PP	PP	PP	PP
44	.385	±.005						0.385	0.385	0.385	0.386	0.385	0.385	0.385	0.385
45	.950	±.005						0.952	0.951	0.951	0.952	0.952	0.952	0.952	0.953
46	1.070	±.005						PP	PP	PP	PP	PP	PP	PP	PP
47	2.775	±.005						PP	PP	PP	PP	PP	PP	PP	PP
48	3.030	±.005						PP	PP	PP	PP	PP	PP	PP	PP
49	3.13	±.01						PP	PP	PP	PP	PP	PP	PP	PP
50	3.66	±.01						PP	PP	PP	PP	PP	PP	PP	PP
51	4.600	±.005						PP	PP	PP	PP	PP	PP	PP	PP
52	5.050	±.005						PP	PP	PP	PP	PP	PP	PP	PP
53	5.75	±.01						5.750	5.753	5.753	5.750	5.750	5.752	5.752	5.736
54	.15	±.01						0.148	0.150	0.148	0.149	0.148	0.147	0.146	0.149
55	40.68	±.01						PP	PP	PP	PP	PP	PP	PP	PP
56	1.17	±.01						PP	PP	PP	PP	PP	PP	PP	PP
57	R40.55	±.01						PP	PP	PP	PP	PP	PP	PP	PP



Invoice

2228 Gladwin Crescent
Ottawa, Ontario
K1B 4S6

Phone # 613-899-2405

Date	Invoice #
8/2/2013	632

Invoice To
Dart Aerospace 1270 Aberdeen Street Hawksbury, Ontario K6A 1K7

Ship To
Main Finished Goods Location Dart Aerospace 1270 Aberdeen Street Hawksbury, Ontario K6A 1K7

P.O. No.	Terms	Rep	Ship	Via	F.O.B.	Project
19277	Net 30 Days		8/2/2013	Federal Expr...	Archer	

Quantity	Item	Description	Price Each	Amount
28	Sales	647.9612P	340.00	9,520.00
2	Sales	647.9612P - Scraped during second operation	0.00	0.00

Sales Tax Summary

HST (ON)@13.0%	1,237.60
Total Tax	1,237.60

GST/HST No. 839405685

Total \$10,757.60



Non Conformance Repot

Customer: Dart
Job/ PO# 19277
Part Number: 647.9612
Description: Bracket
QTY: 30

Reject QTY: 2
Customer Supplied Yes
Material:
Pictures Attached: No

Work Order #:
Date: 28-Aug-13
Is the Part
Identified: Yes

DESCRIPTION OF NONCONFORMANCE		
Item	Qty	
1	1	Part demension out of tolerance - undersized
2	1	Part demension out of tolerance - undersized
CAUSE OF NONCONFORMANCE		
Item Ref.		
1		Errors occurred during setup of part during operation number one
2		Errors occurred during setup of part during operation number one
CORRECTIVE ACTION		
1		Adjustments made to set up
2		Adjustments made to set up
CUSTOMER DISPOSITION		
Item Ref.		

Inspector/ QA: G,KUMPULA

Date: 28-Aug-13

NCR#

82813



A.T.G. Industries Inc.
731, rue Industrielle Rd.
PLATING DEPARTMENT
Rockland, On K4K 1T2
Canada
Ph: (613) 446-4544
Fax: (613) 446-4556

Pack List

Number: 62615

Date: 12-Sep-13

To

DART AEROSPACE LTD
1270 ABERDEEN ST.
HAWKESBURY, ON K6A 1K7
Canada

Ship To

DART AEROSPACE LTD
1270 ABERDEEN ST.
HAWKESBURY, ON K6A 1K7
Canada

Ph: 613-632-5200

Fax: 613-632-1185

Ph: 613-632-5200

Fax: 613-632-1185

Terms		Ship Via	
Quantity	Description		
1 lot	Part: ASST 3 PCS 647.9313 21 PCS 646.3811 28 PCS 647.9612 HARD ANODIZE BLACK MIL-A-8625 TYPE III CLASS 2 PRIME MIL-P-23377 J TYPE I CLASS N Job: 20130564	Rev:	Line:
Certificate of Conformance			
A.T.G. Industries certifies that all items in this shipment are in conformance with all requirements, specifications and drawings referenced in the purchase order.			
ISO 9001 : 2008 REGISTERED ATG SALES-2010 TERMS APPLY			
DATE : 12/7/13			
CERTIFIED SIGNATURE : <u>M.</u>			
RECEIVER SIGNATURE : _____			